



# **Functional Independence Mathematics**

**Official Released Items**

## **Grade 8**

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**Fall 2005  
Official Released Items**

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*The Functional Independence Mathematics Assessments* for grades 3 through 8 were administered for the first time in fall 2005. Beginning with this administration, the Office of Educational Assessment and Accountability (OEAA) will release a portion of the items that were administered in each grade each year. This booklet contains released items from the fall 2005 administration and is intended to be used by districts to assist in their interpretation of item analysis data. The information contained in this booklet may also be used by schools, teachers, and parents as a resource for understanding the content and format of the assessment items. In addition to MI-Access training materials and Extended Grade Level Content Expectations (EGLCE), the released items may also have utility in informing decisions related to instruction, curriculum, and assessment. These items are **not** secure and may be copied and distributed as needed.

The table below lists the number of core and released items from the fall 2005 assessment booklets. Core items are those that count toward students' scores. All released items in this booklet were selected from the pool of core items that appeared on the assessment.

**Functional Independence - Mathematics**

<b>Mathematics Strand</b>	<b>Number of Core Items</b>
Numbers and Operations	17
Algebraic Operations and Analytical Thinking	2
Measurement	10
Geometry	3
Data and Probability	3
<b>Total Core Items/Points</b>	<b>35</b>
<b>Released Items</b>	<b>10</b> <b>(Numbers vary by strand and topic.)</b>

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**DIRECTIONS:** Read each question. Choose the **BEST** answer for each question.

**R1** Which number is read “two hundred seven”?

- A** 200
- B** 270
- C** 207

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**R2** Bob read a thermometer that showed 70 degrees.

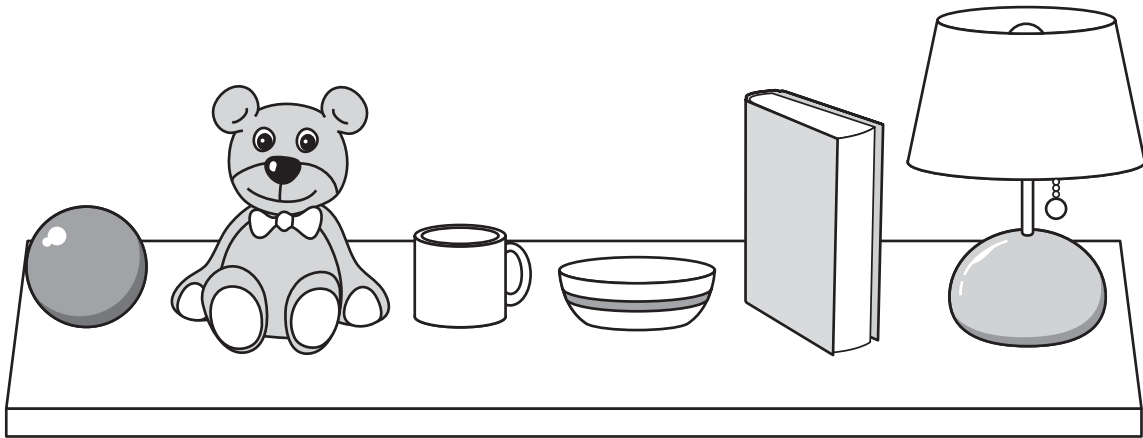
What was the thermometer measuring?

- A** height
- B** temperature
- C** weight

**R3** Which tool would be used to measure the length of a paper clip?

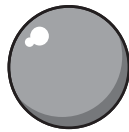
- A** a measuring cup
- B** a ruler
- C** a bathroom scale

Use the figure below to answer question **R4**.



**R4** Looking at the shelf above, which object is left of the bear?

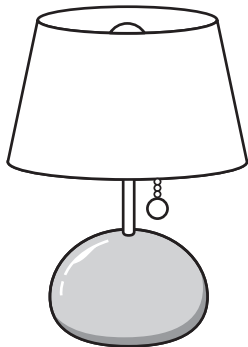
**A**



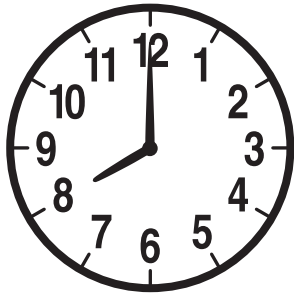
**B**



**C**



- R5** A movie started at 8:00 P.M.



It was  $3\frac{1}{2}$  hours long. At what time did the movie end?




- A** 10:30 P.M.
- B** 11:00 P.M.
- C** 11:30 P.M.


Use the tables below to answer question **R6**.

**Number of Students  
in 6th Grade**

Year	Number of Students
2000	45
2001	60
2002	70

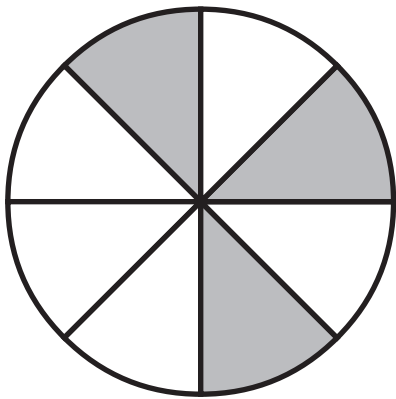
**Number of Students  
in 6th Grade**

Year	Number of Students
2000	
2001	
2002	

**R6** The table and the pictograph show the same information.  
How many students does one  represent?

- A** 5
- B** 7
- C** 10

Use the figure below to answer question **R7**.



**R7** How much of the figure above is shaded?

**A**  $\frac{1}{8}$

**B**  $\frac{3}{8}$

**C**  $\frac{5}{8}$



**R8** Here is a sign in the window of Tom's TV Shop.



Which price would be the sale price of a TV that usually sells for \$800?

- A**    \$600
- B**    \$400
- C**    \$200

**R9** Carol worked for 2 hours and made \$10.

Today she worked 4 hours.

At the same pay rate, how much did she earn today?

**A** \$10

**B** \$20

**C** \$30

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**R10** Tom made 12 sandwiches in one hour.

At this rate, how many sandwiches could Tom make in 3 hours?

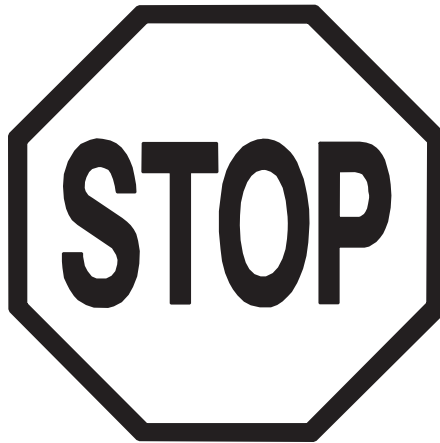
**A** 15

**B** 24

**C** 36



**Do Not Continue.**



**Do not continue until instructed to do so.**

Below is a list of the Extended Grade Level Content Expectations (EGLCE) for each released item found in this booklet. The chart contains the EGLCE code, a brief description of what is measured, and the correct answer for each released item.

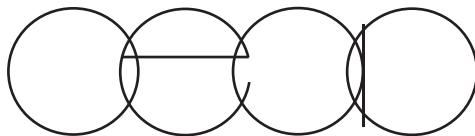
Because the assessment was administered during the **fall** of the school year, only content from the *previous* grade level was measured on the assessment. For example, items eligible for the Grade 8 assessment will measure Grade 7 EGLCE.

Full descriptions of the EGLCE contained in the chart below are available for review and download at **[www.mi.gov/mi-access](http://www.mi.gov/mi-access)**.

Released Item Number	EGLCE Code	STRAND or Abbreviated Extended GLCE Descriptor	Answer Key
		<b>DATA AND PROBABILITY</b>	
R6	D.RE.07.EG01	Read data	C
		<b>GEOMETRY</b>	
R4	G.LO.07.EG01	Use relative position of objects on a plane and in space	A
		<b>MEASUREMENT</b>	
R5	M.PS.07.EG12	Solve word problems	C
R3	M.UN.07.EG01	Use standard tools for measurement	B
R2	M.UN.07.EG02	Select units of measure	B
		<b>NUMBERS AND OPERATIONS</b>	
R1	N.ME.07.EG01	Read, write and count using whole numbers to 100,000	C
R7	N.ME.07.EG15	Recognize, name, represent and write unit fractions	B
R8	N.MR.07.EG21	Multiply fractions by whole numbers	B
R9	N.MR.07.EG25	Solve applied problems	B
		<b>ALGEBRA</b>	
R10	A.FO.07.EG01	Solve applied problems involving rates	C



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